

## Amendment to the Claims

1. (Withdrawn) A targeting construct comprising:
  - a. a first polynucleotide sequence homologous to a platelet-activating factor receptor gene;
  - b. a second polynucleotide sequence homologous to the platelet-activating factor receptor gene; and
  - c. a selectable marker.
2. (Withdrawn) The targeting construct of claim 1, wherein the targeting construct further comprises a screening marker.
3. (Withdrawn) A method of producing a targeting construct, the method comprising:
  - a. providing a first polynucleotide sequence homologous to a platelet-activating factor receptor gene;
  - b. providing a second polynucleotide sequence homologous to the platelet-activating factor receptor;
  - c. providing a selectable marker; and
  - d. inserting the first sequence, second sequence, and selectable marker into a vector, to produce the targeting construct.
4. (Withdrawn) A method of producing a targeting construct, the method comprising:
  - a. providing a polynucleotide comprising a first sequence homologous to a first region of a platelet-activating factor receptor gene and a second sequence homologous to a platelet-activating factor receptor gene;
  - b. inserting a positive selection marker in between the first and second sequences to form the targeting construct.
5. (Withdrawn) A cell comprising a disruption in a platelet-activating factor receptor gene.
6. (Withdrawn) The cell of claim 5, wherein the cell is a murine cell.
7. (Withdrawn) The cell of claim 6, wherein the murine cell is an embryonic stem cell.
8. (Currently amended) A transgenic mouse whose genome comprises a homozygous disruption in a nucleic acid sequence comprising the nucleotide sequence set forth in SEQ ID NO: 1, wherein the disruption comprises disruption of the nucleotide sequence set forth in SEQ ID NO: 1, and wherein said transgenic mouse exhibits, relative to a wild-type mouse, a phenotype selected from the group consisting of decreased anxiety and increased pain threshold ~~increased~~

~~response latency during a hot plate test and increased time in the central region during an open field test.~~

Claims 9-10 (Canceled)

11. (Withdrawn) A method of identifying an agent that modulates the expression of a platelet-activating factor receptor, the method comprising:

- a. providing a non-human transgenic animal comprising a disruption in a platelet-activating factor receptor gene;
- b. administering an agent to the non-human transgenic animal; and
- c. determining whether the expression of platelet-activating factor receptor in the non-human transgenic animal is modulated.

12. (Withdrawn) A method of identifying an agent that modulates the function of a platelet-activating factor receptor, the method comprising:

- a. providing a non-human transgenic animal comprising a disruption in a platelet-activating factor receptor gene;
- b. administering an agent to the non-human transgenic animal; and
- c. determining whether the function of the disrupted platelet-activating factor receptor gene in the non-human transgenic animal is modulated.

13. (Withdrawn) A method of identifying an agent that modulates the expression of platelet-activating factor receptor, the method comprising:

- a. providing a cell comprising a disruption in a platelet-activating factor receptor gene;
- b. contacting the cell with an agent; and
- c. determining whether expression of the platelet-activating factor receptor is modulated.

14. (Withdrawn) A method of identifying an agent that modulates the function of a platelet-activating factor receptor gene, the method comprising:

- a. providing a cell comprising a disruption in a platelet-activating factor receptor gene;
- b. contacting the cell with an agent; and

c. determining whether the function of the platelet-activating factor receptor gene is modulated.

15. (Withdrawn) The method of claim 13 or claim 14, wherein the cell is derived from the non-human transgenic animal of claim 8.

16. (Withdrawn) An agent identified by the method of claim 11, claim 12, claim 13, or claim 14.

Claims 17-19 (Canceled).